# Air Monitoring Summary Tables: Evacuation Zone

The tables below summarize preliminary air monitoring data collected using EPA AreaRAE Pro, DustTrak DRX, Handheld DustTrak, SPM Flex, and MultiRAE Pro instruments.

 Project Name:
 Rockton Chemtool Fire ER

 Date/Time:
 06/17/21 03:00 to 06/18/21 01:53

Weather

Temperature: 57.2°, high of 93.2°
Wind Speed: 6 - 16 miles per hour
Wind Direction: South/Southwest
Conditions: Mostly Cloudy

	Station 1: Roscoe Middle School									
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods				
D4Tl. 200	$PM_{2.5} (mg/m^3)$	$0.025 \text{ mg/m}^3$	No	15	0.008 to 0.012	0.010				
DustTrak 206	PM <sub>10</sub> (mg/m <sup>3</sup> )	$0.05 \text{ mg/m}^3$	No	15	0.010 to 0.016	0.012				
	VOC (ppm)	1 ppm	No	13	0.5 to 0.7	0.6				
AreaRAE 2	CO (ppm)		No	13	0.0 to 0.0	0.0				
(S/N: 0641)	O <sub>2</sub> (%)		No	13	21.4 to 21.7	21.5				
	H <sub>2</sub> S (ppm)	$0.1 \text{ mg/m}^3$	No	13	0.0 to 0.0	0.0				

	Station 4: Corner of Union and Ferry								
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods			
DustTrak 200	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	$0.025 \text{ mg/m}^3$	No	21	0.002 to 0.012	0.007			
Dust i rak 200	PM <sub>10</sub> (mg/m <sup>3</sup> )	$0.05 \text{ mg/m}^3$	No	21	0.003 to 0.012	0.008			
	VOC (ppm)	1 ppm	No	22	0.0 to 35.7	0.0			
AreaRAE 2	CO (ppm)		No	22	0.0 to 1.5	0.1			
(S/N: 2172)	O <sub>2</sub> (%)		No	22	20.2 to 20.9	20.5			
	H <sub>2</sub> S (ppm)	$0.1 \text{ mg/m}^3$	No	22	0.0 to 0.0	0.0			

	Station 5: Stand alone area near stop sign on Chapel and Bridge St								
Instrument	Analyte Chemtool Public Health Screening Level Level Level Level Exceeded? Number of 1-Hour Period Concentration Range Average 1-Hour Periods								
	VOC (ppm)	1 ppm	No	21	0.0 to 1.9	0.0			
AreaRAE 2	CO (ppm)		No	21	0.0 to 0.0	0.0			
(S/N: 0640)	O <sub>2</sub> (%)		No	21	20.3 to 20.9	20.7			
	H <sub>2</sub> S (ppm)	$0.1 \text{ mg/m}^3$	No	21	0.0 to 0.0	0.0			

	Station 6: Corner of Union and Ferry								
Instrument	Analyte Chemtool Public Health Screening Level Exceeded? Number of 1-Hour Periods		1-Hour Period Concentration Range	Average of All 1-Hour Periods					
D4T l- 212	$PM_{2.5} (mg/m^3)$	$0.025 \text{ mg/m}^3$	No	21	0.003 to 0.018	0.008			
DustTrak 212	$PM_{10} (mg/m^3)$	$0.05 \text{ mg/m}^3$	No	21	0.004 to 0.020	0.009			
	VOC (ppm)	1 ppm	No	21	0.0 to 1.0	0.0			
AreaRAE 2	CO (ppm)		No	21	0.0 to 0.0	0.0			
(S/N: 0643)	O <sub>2</sub> (%)		No	21	20.2 to 21.3	20.8			
	H <sub>2</sub> S (ppm)	$0.1 \text{ mg/m}^3$	No	21	0.0 to 0.0	0.0			

## Comments

Air monitoring measurements have been averaged over a 1-hour time period and summarized above.

Start and stop times for each air monitoring instrument varies. The monitoring period is based on the earliest start time and latest stop time out of all units.

Air monitoring at fixed locations stopped at 6/18/2021 01:53 due to inclement weather conditions.

1 - Chemtool Public Health Screening Levels are based on 1-hour time-weighted averages and were established by ATSDR

### **Notes:**

CO - Carbon Monoxide

H2S - Hydrogen Sulfide

O2 - Oxygen

ppm - Parts per million

VOC - Volatile organic compounds

# **Air Monitoring Summary Tables: Evacuation Zone**

The tables below summarize preliminary air monitoring data collected using EPA Handheld DustTrak, SPM Flex, and MultiRAE Pro instruments.

 Project Name:
 Rockton Chemtool Fire ER

 Date/Time:
 06/15/21 19:00 to 06/18/21 06:25

		Station EZ-01: 110	1-1159 Innovation I	)r	
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
	H <sub>2</sub> S (ppm)	0.1 ppm	No	30	0.0 to 0.0
MultiRAE Pro	HCN	1 ppm	No	30	0.0 to 0.3
	VOC (ppm)	1 ppm	No	30	0.0 to .01
Handheld	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	Yes	5	0.013 to 0.148
DustTrak	PM <sub>10</sub> (mg/m <sup>3</sup> )	$0.05~\mathrm{mg/m}^3$	No	5	0.022 to 0.040
SPM Flex	SO <sub>2</sub> (ppb)	0.2 ppm	No	28	0.0 to 0.0

		Station EZ-02:	100-198 Kothe Ct		
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
	H <sub>2</sub> S (ppm)	0.1 ppm	No	10	0.0 to 0.0
MultiRAE Pro	HCN	1 ppm	No	10	0.0 to 0.3
	VOC (ppm)	1 ppm	No	10	0.0 to 0.0
Handheld	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>		0	
DustTrak	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	-	0	-
SPM Flex	SO <sub>2</sub> (ppb)	0.2 ppm	No	10	0.0 to 0.0

		Station EZ-03: 8	60-998 N Prairie St		
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
	H <sub>2</sub> S (ppm)	0.1 ppm	No	25	0.0 to 0.0
MultiRAE Pro	HCN	1 ppm	No	26	0.0 to 0.5
	VOC (ppm)	1 ppm	No	25	0.0 to 0.0
Handheld	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	$0.025 \text{ mg/m}^3$	No	4	0.006 to 0.015
DustTrak	PM <sub>10</sub> (mg/m <sup>3</sup> )	$0.05~\mathrm{mg/m}^3$	No	6	0.008 to 0.020
SPM Flex	SO <sub>2</sub> (ppb)	0.2 ppm	No	24	0.0 to 0.01

	Station EZ-04: 100-198 E Franklin St							
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range			
	H <sub>2</sub> S (ppm)	0.1 ppm	No	6	0.0 to 0.0			
MultiRAE Pro	HCN	1 ppm	No	6	0.0 to 0.3			
	VOC (ppm)	1 ppm	No	6	0.0 to 0.0			
Handheld	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>		0				
DustTrak	PM <sub>10</sub> (mg/m <sup>3</sup> )	$0.05~\mathrm{mg/m}^3$	1	0				
SPM Flex	SO <sub>2</sub> (ppb)	0.2 ppm	No	6	0.0 to 0.0			

#### Comment

Air monitoring measurements have been averaged over a 1-hour time period and summarized above.

Start and stop times for each air monitoring instrument varies. The monitoring period is based on the earliest start time and latest stop time out of all units.

1 - Chemtool Public Health Screening Levels are based on 1-hour time-weighted averages and were established by ATSDR

### **Notes:**

CO - Carbon Monoxide

H2S - Hydrogen Sulfide

O2 - Oxygen

ppm - Parts per million

VOC - Volatile organic compounds

# **Air Monitoring Summary Tables: Evacuation Zone**

The tables below summarize preliminary air monitoring data collected using EPA Handheld DustTrak, SPM Flex, and MultiRAE Pro instruments.

Project Name: Rockton Chemtool Fire ER Date/Time: 06/15/21 19:00 to 06/18/21 06:25

	Station EZ-05: 907-1099 Watts Ave							
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range			
	H <sub>2</sub> S (ppm)	0.1 ppm	No	24	0.0 to 0.0			
MultiRAE Pro	HCN	1 ppm	No	25	0.0 to 0.3			
	VOC (ppm)	1 ppm	No	25	0.0 to 0.0			
Handheld	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	$0.025 \text{ mg/m}^3$	No	5	0.006 to 0.015			
DustTrak	$PM_{10}$ (mg/m <sup>3</sup> )	$0.05~\mathrm{mg/m}^3$	No	5	0.007 to 0.030			
SPM Flex	SO <sub>2</sub> (ppb)	0.2 ppm	No	25	0.0 to 0.0			

	Station EZ-06: 14632 S Bluff Rd							
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range			
	H <sub>2</sub> S (ppm)	0.1 ppm	No	24	0.0 to 0.0			
MultiRAE Pro	HCN	1 ppm	No	25	0.0 to 0.3			
	VOC (ppm)	1 ppm	No	24	0.0 to 0.0			
Handheld	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	$0.025 \text{ mg/m}^3$	No	5	0.007 to 0.055			
DustTrak	PM <sub>10</sub> (mg/m <sup>3</sup> )	$0.05~\mathrm{mg/m}^3$	No	5	0.008 to 0.030			
SPM Flex	SO <sub>2</sub> (ppb)	0.2 ppm	No	24	0.0 to 0.01			

	Station EZ-07: 14728-14758 S Bluff Rd							
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range			
	H <sub>2</sub> S (ppm)	0.1 ppm	No	15	0.0 to 0.0			
MultiRAE Pro	HCN	1 ppm	No	15	0.0 to 0.0			
	VOC (ppm)	1 ppm	No	15	0.0 to 0.0			
Handheld	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	5	0.005 to 0.024			
DustTrak	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	5	0.005 to 0.030			
SPM Flex	SO <sub>2</sub> (ppb)	0.2 ppm	No	15	0.0 to 0.0			

		Station EZ-08: 100	1-1199 Prairie Hill F	Rd	
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
	H <sub>2</sub> S (ppm)	0.1 ppm	No	14	0.0 to 0.0
MultiRAE Pro	HCN	1 ppm	No	14	0.0 to 0.0
	VOC (ppm)	1 ppm	No	14	0.0 to 0.0
Handheld	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	Yes	4	0.007 to 0.075
DustTrak	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	Yes	4	0.008 to 0.085
SPM Flex	SO <sub>2</sub> (ppb)	0.2 ppm	No	14	0.0 to 0.0

Comments	
1 - Chemtool Public Health Screening Levels are based on 1-hour time-weighted averages and were established by A	TSDR

### **Notes:**

 $\mathrm{H}_2\mathrm{S}$  - Hydrogen Sulfide  $PM_{\rm 2.5}$  - particles that are 2.5 micrometers and smaller  $\ensuremath{\text{PM}_{10}}$  - particles that are 10 micrometers and smaller

HCN - Hydrogen Cyanide mg/m³ - milligrams per cubic meter

SO<sub>2</sub> - Sulfur Dioxide O<sub>2</sub> - Oxygen

VOC - Volatile organic compounds

ppm - Parts per million

